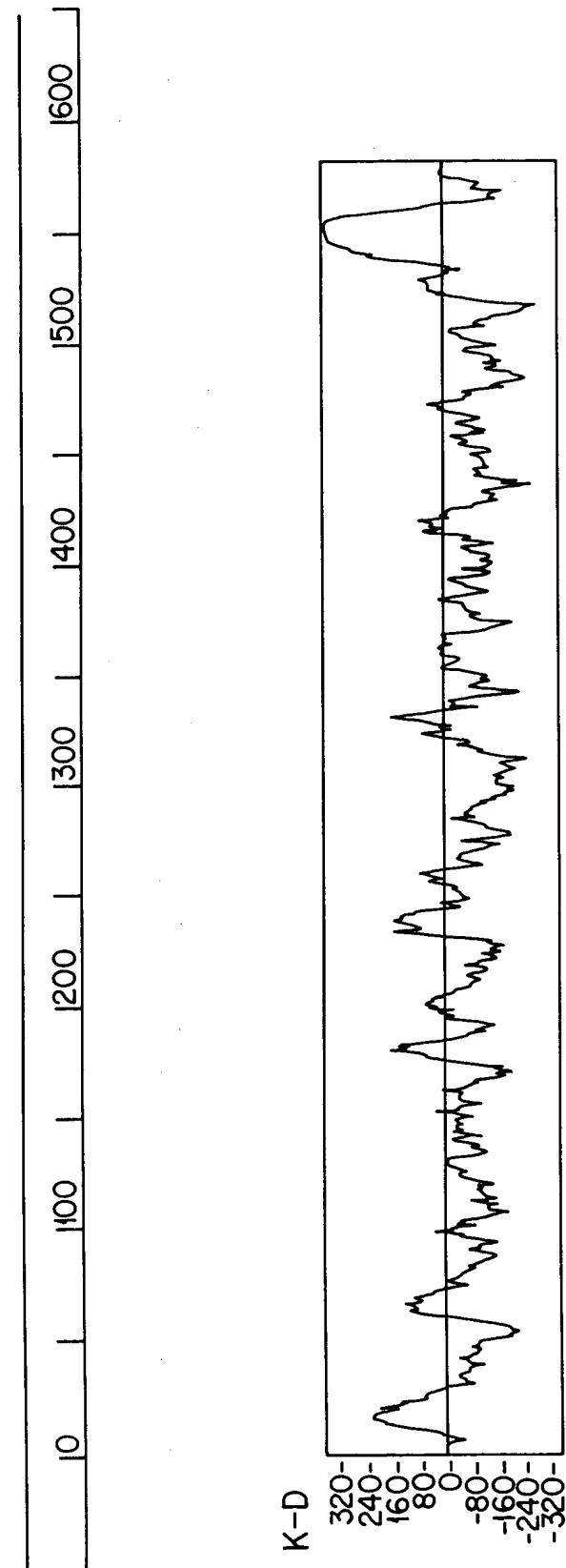


1000 800 600 400 200 0 200 400 600 800 1000

Fig. 1



2/15

Fig. 2A

MMP-11	MAPAAWLRSA	AARALLPPML	LLLLQPPPL-	-----LARA	33
MMP-1	MHS-----	----FPPL	LLLFWGVVS	HSEPATLETOQ	37
MMP-8	MFSLKTL---	----PFL	LLLHQVISKA	FVSSKEKNT	36
MMP-10	MMHLL---	----AFL	VLLCLPVCSA	YPLSGAAKEE	37
MMP-3	MKSL---	----PIL	LLLCVAVCSA	YPLDGAARGE	37
MMP-9	MSIWQP---	----LVLVLLV	LGCCFAAPRO	RQSTLVLFGC	43
MMP-2	MR-----	----AP---	-----AP--	--SPIIKFPG	19
MMP-7	MSPAP---	---LTVLCAV	CLLPGSALP	LPQEAGGMSE	33
MT-MMP	MT-MMP	----RPSR	CLLPLLTG	TALASLGSAQ	38
Consensus	M. . . -----	-----P.L	LLL.KL..	50
MMP-11	LPPDVHHL--	---HAERR-G	PQPHAAALPS	SP---APAPA	74
MMP-1	L-EKYYNLN	DGRQVEKRRN	SGPVVEKLKQ	MQEFFGLKVT	86
MMP-8	L-EKFYQLPS	NQYQSTRKNG	TNVIVEKLKE	MQRFFGLNVT	85
MMP-10	L-EKYYNLEK	DVKQFTRK-D	SNLIVKKIQG	MQKFLGLEVT	85
MMP-3	L-ENYYDLKK	DVKQFVRRKD	SGPVVKKIRE	MQKFLGLEVT	86
MMP-9	LAEYLRYG	YTRVAEMRGE	SKSLGPALL	LQQQLSLPET	93
MMP-2	LAVQYIINTF-	YGCPE-SCN	LFVLDTLKK	MQKFFGLPQT	67
MMP-7	QAQDYIJKRF-	YLYDSETK-N	ANSLEAKIKE	MQKFFGLPIT	81
MT-MMP	L-QQGYLPP	GDLRHTQRS	PQSLSAAIAA	MQKFYGLQVT	87
Consensus	L-E.Y..L..E....KL..	MQKF.GL.VT	100

3/15
Fig. 2B

	MMP-11	MRPPRCGVPD	-PSDGLSARN	RQKRFVLSGG	RWEKTDLTYR	ILRFPWQLVQ	123
MMP-1	MKOPRCGVPD	-VAQ-FVL--	---TE-GNP	RWEQTHLTYR	IENYTPDLPR	IENYTPDLSE	127
MMP-8	MKKPRCGVPD	-SGG-FML--	---TP-GNP	KWERTNLTYR	IRNYTPQLE	IRNYTPQLE	126
MMP-10	MRKPRCGVPD	-VGH-FSS--	---FP-GMP	KWRKTHLTYR	IVNYTPDLPR	IVNYTPDLPR	126
MMP-3	MRKPRCGVPD	-VGH-FRT--	---FP-GIP	KWRKTHLTYR	IVNYTPDLPK	IVNYTPDLPK	127
MMP-9	MRTPRCGVPD	-LGR-FQT--	---FE-GDL	KWEHHNITYW	IQNYSEDLPR	IQNYSEDLPR	134
MMP-2	MRKPRCGNPD	-VAN-YNF--	---FP-RKP	KWDKNQITYR	IIGYTPDLDP	IIGYTPDLDP	108
MMP-7	MQKPRCGVPD	-VAE-YSL--	---FP-NSP	KWTSKVVTYR	IVSYTRDLPH	IVSYTRDLPH	122
MT-MMP	MRRPRCGVPD	KFGAEIKANV	RRKRYAIQGL	KWQHNEITFC	IQNYTPKVGE	IQNYTPKVGE	137
Consensus	MRKPRCGVPD	-VG.-F.- --	---FP-G.P	KW.T.LTYR	I.NYTPDLPP	I.NYTPDLPP	150
MMP-11	EQRQTMAEA	LKVWSDVTPL	TFTEV-----	--HEGRADI	MIDFARYWDG	MIDFARYWDG	165
MMP-1	ADVDHAIEKA	FQIWSNVTPL	TFTKV-----	--SEGQADI	MISFVRGDHR	MISFVRGDHR	169
MMP-8	AEVERAIKDA	FELWSVASPL	IFTRI-----	--SQGEADI	NIAFYQRDHG	NIAFYQRDHG	168
MMP-10	DAVDSAIKEKA	LKVWEEVTPL	TFSRL-----	--YEGEADI	MISFAVKENG	MISFAVKENG	168
MMP-3	DAVDSAVEKA	LKVWEEVTPL	TFSRL-----	--YEGEADI	MISFAVREHG	MISFAVREHG	169
MMP-9	AVIDDAFARA	FALWSAVTPL	TFTRV-----	--YSRDADI	VIQFGVAEHG	VIQFGVAEHG	176
MMP-2	ETVDDAFAARA	FQVWSDVTPL	RFSRI-----	--HDGEADI	MINFGRWEHG	MINFGRWEHG	150
MMP-7	ITVDRLVSKA	LNMWGKEIPL	HFRKV-----	--VWGTADI	MIGFARGAHG	MIGFARGAHG	164
MT-MMP	YATYEAIRKA	FRVWESATPL	RFREVAYI	REGHEKQADI	MIFFAEGFHG	MIFFAEGFHG	187
Consensus	.VD.A..KA	F.VWS.VTPL	TF.RV-----	--EG-ADI	MI.FA...HG	MI.FA...HG	200

4 / 15

Fig. 2C

MMP-11	DDLPFDGP GG	ILAHAF FF PKT	HREGDVHFDY	DETWTIGDDQ	GTD-----
MMP-1	DNSPFDGP GG	NLAHA F QPGP	GIGGDAHFD E	DERWTNNFT-	EYN-----
MMP-8	DNSPFDGP NG	ILAHAF F QPGQ	GIGGDAHFD A	EETWTNTSA-	NYN-----
MMP-10	DFYSFDGP GH	VLAHAYPPGP	GLYGD I HFD D	DEKWTEDAS-	GTN-----
MMP-3	DFYPFDGP GN	VLAHAYAPGP	GINGDAHFD D	DEQWTKD T T-	GTN-----
MMP-9	DGYPF DG KDG	LLAHAFPPGP	GIQGDAHFD D	DELWSLGKG-	VVVPTRFGNA-----
MMP-2	DGYPF DG KDG	LLAHAFAPGT	GVGGDSHFD D	DELWTLGEG-	QVVRVKYGN-----
MMP-7	DSYPFDGP GN	TLAHAFAPGT	GLGGDAHFD E	DERWTDGSSL	GIN-----
MT-MMP	DSTPF GE GG	FLAHAYFPGP	NIGGDT HD S	AEPWTIVRNE-	DLN-----
Consensus	D.YPFDGP GG	.LAHAF.PGP	GIGGDAHFD.	DE.WT.....-	..N-----
					250-----
MMP-11	-----	-----	-----	-----	208-----
MMP-1	-----	-----	-----	-----	211-----
MMP-8	-----	-----	-----	-----	210-----
MMP-10	-----	-----	-----	-----	210-----
MMP-3	-----	-----	-----	-----	211-----
MMP-9	DGAACHFP FI	FEGRSYSACT	TDGRSDGLPW	CSTTAN Y DTD	275-----
MMP-2	DGEYCKFP FI	ENGKEYNSCT	DTGRSDGFLW	CSTTIN F EKD	249-----
MMP-7	-----	-----	-----	-----	207-----
MT-MMP	-----	-----	-----	-----	229-----
Consensus					

the first time in the history of the world.

5/15 Fig. 2D

abn. wng. gne. ngn. ngn. ngn. ngn. ngn. ngn. ngn. ngn.

6/15

Fig. 2E

	6/15	Fig. 2E		
MMP-11	-----L	LQVAA-HEFG	HVLGLQHTTA	AKALMSAFY-
MMP-1	-----L	HRVAA-HELG	HSLGLSHSTD	IGALMYP SY-
MMP-8	-----L	FLVAA-HEFG	HSLGLAHSDD	PGALMYP NY-
MMP-10	-----L	FLVAA-HELG	HSLGLFHSAN	TEALMYPLYN
MMP-3	-----L	FLVAA-HEIG	HSLGLFHSAN	TEALMYPLIH
MMP-9	-----L	FLVAA-HEFG	HALGLDHSSV	PEALMYP MY-
TSNEDSDKKW	GFCPDQGYSL	FLVAA-HEFG	HAMGLEHSQD	PGALMAP IY-
TANYDDDRKW	GFCPDQGYSL	FLVAA-HEFG	HSLGMGHSSD	PNAVMYPTY-
MMP-2	-----	FLYAAATHELG	HALGLEHSSD	PSAIMAPFY-
MMP-7	-----GNDI	FLVAV-HELG		
MT-MMP				
Consensus	-----L	FLVAA-HE . G	HSLGL . HS . D	P . ALMYP . Y -
				450
MMP-11	TF--RYPLSL	SPDDDCRGVQH	LYG-----	-----
MMP-1	TF--SGDVQL	AQDDIDGIQA	IYG-----	-----
MMP-8	AFRETSNYSL	PQDDIDGIQA	IYG-----	-----
MMP-10	SFTELAQFRL	SQDDVNGIQS	LYG-----	-----
MMP-3	SLTDLTRFRRL	SQDDINGIQS	LYG-----	-----
MMP-9	RF--TEGPPL	HKDDVNGIRH	LYGRPEPEP	RPTTTTPQP
MMP-2	TY--TKNFRL	SQDDIKGQE	LYG-----	TAPP TVCPTG
MMP-7	GNGDPQNFKL	SQDDIKGIQK	LYGKRSNSRK	K-----
MT-MMP	QWMDTENFVL	PDDDRGGIQQ	LYGGESEGFPT	RPSVPQPRRTS
Consensus	F . . . F . L	SQDDI.GI.Q.	LYG-----	-----
				500

7/15
Fig. 2F

MMP-11	-----QPW	PTVTISRTPAL	GPOAGIDTNE	IAPLEPDAPP	291
MMP-1	-----	RSQNVPQP-I	GPQTP-----	-----KAC	278
MMP-8	-----	---LSSNP-I	OPTGP-----ST	P-----KPC	279
MMP-10	-----P	PPASTEEP-L	VPTKS---VP	S-GSEMPAKC	289
MMP-3	-----P	PPDSPETP-L	VPTEP---VP	P-EPGTPANC	290
MMP-9	TAGPTGPPSA	GPTGGPTA-G	PSTAT---TV	PLSPVD-DAC	516
MMP-2	-----	---ASPDI-D	LGTGP---TP	TLGPVTPEIC	440
MMP-7	-----	-----	-----	-----	267
MT-MMP	PTYGPNICDG	NFDTVAMLRG	WRRVNNNQVMD	GYPMPIGQFW	361
Consensus	-----	-----	-----P-	-----.	550
			.	C	
MMP-11	DACEASFDAV	STIR-GELFF	FKAGFWRLR	GGQL-QPGYP	339
MMP-1	DS-KLTFDAL	TTIR-GEVMF	FKDRFTYMR-T	NPFY-PEVEL	324
MMP-8	DP-SLTFDAL	TTLR-GEILF	FKDRYFWR-R	HPQL-QRVEM	325
MMP-10	DP-ALSFDAI	STLR-GEYL	FKDRYFWR-R	SHWN-PEPEF	335
MMP-3	DP-ALSFDAV	STLR-GEILL	FKDRHFWR-K	SLRK-LEPEL	336
MMP-9	NV-NI-FDAI	AEIG-NQLYL	FKDGKYWRF	EGRGSRPQQP	563
MMP-2	KQ-DIVFDGI	AQIR-GEIFF	FKDRFIWRTV	TPRD-KPMGP	487
MMP-7	-----	-----	-----	LLVATEFWPEL	267
MT-MMP	RGLPASINTA	YERKDGFVF	FKGDKHWF	-----	410
Consensus	D. - . . FDAI	. T. R-GE. . F	FKDR. . WR-..	-----.	600
				. L. S. FWP. I.	

Fig 2

Fig. 2G

With the exception of the first two, all the others were made of wood.

9/15

MMP-11	G...-DA	V...-F	V...-F	V...-F	V...-F
MMP-1	GIGH--KVDA	V--FMKDGF	-----YF-FH	GTRQYKEDPK	TKRILTLQ--
MMP-8	GIES--KVDA	V--FOOEHFF	-----HV-FS	GPRYYAFLDI	AQRVTRVA--
MMP-10	GVEP--KVDA	V--LOAFGFF	-----YF-FS	GSSQFEFDPN	ARMVTHIL--
MMP-3	GIDS--KIDA	V--FEFGFF	-----YF-FT	GSSQLEFDPN	AKKVTHTL--
MMP-9	GVPL--DTHD	VFOYREKAYF	---CQDR-FY	WRVSSRSELIN	QVDQVGYV--
MMP-2	AIPD--NLDA	VVDLQGGG--	-----HS-YF	FKGAYYLKLE	N-QSLKSVKF
MMP-7	-----	-----	-----	-----	-----
MMP-MMP	SGGRPDEGTE	EETEVILLE	DEEGGGAVSA	AAWVLPVILL	LLVLAVGLAV
Consensus	G...-DA	V...-F	V...-F	V...-F	V...-F

MMP-11	---GPD-FFG	CAE---PA	NTFLX---	---
MMP-1	---KANSWFN	CR---KN	---	---
MMP-8	---RGNKWLN	CRY---GX	---	---
MMP-10	---KSNSWLH	C---	---	---
MMP-9	---TYD-IIQ	CPE---DX	---	---
MMP-2	GSIKSD-WLG	C---	---	---
MMP-7	---	---	---	---
MT-MMP	EFFFRHGTPR	RILYCQRSLL	DKV-	---
Consensus	---	WL.	C.---	.
				796

Fig. 3

Relative intensity of bands

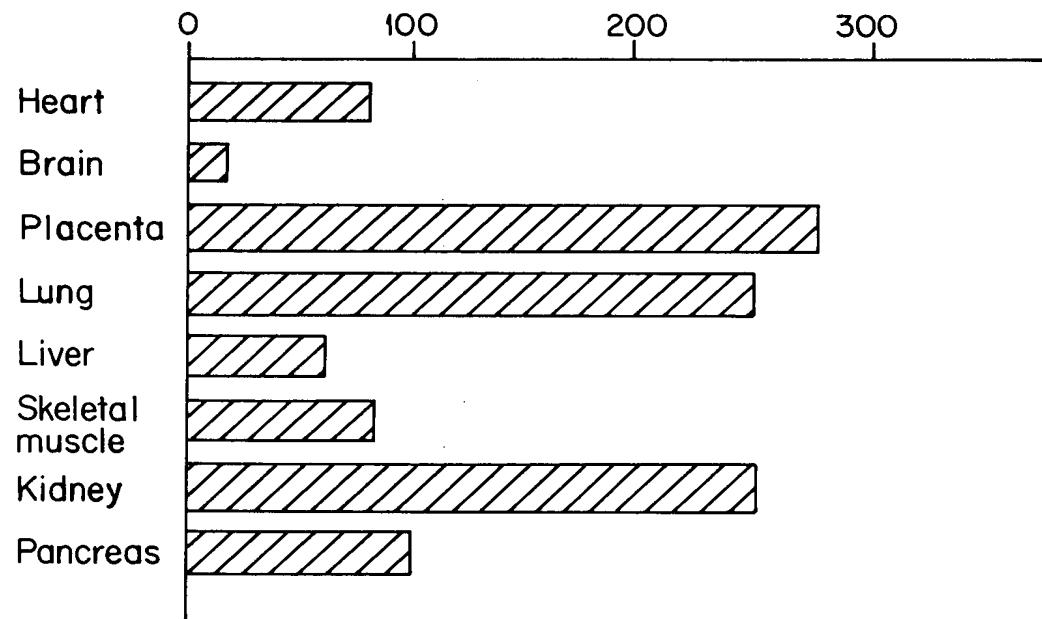


Fig. 4

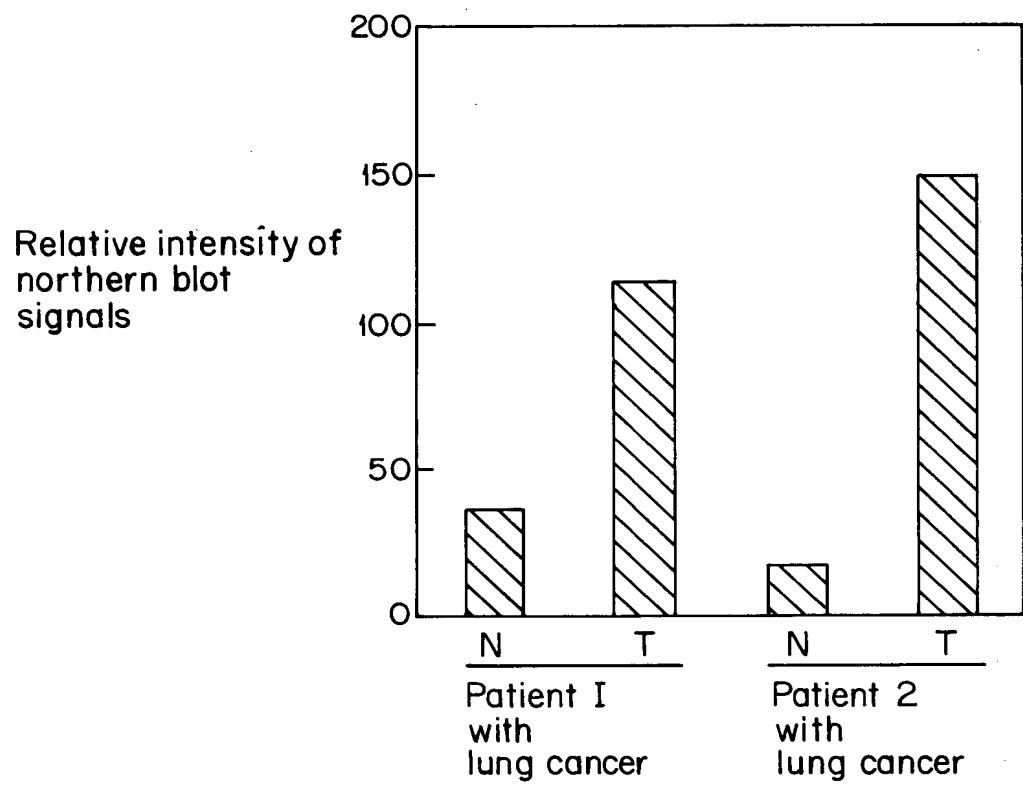


Fig. 5

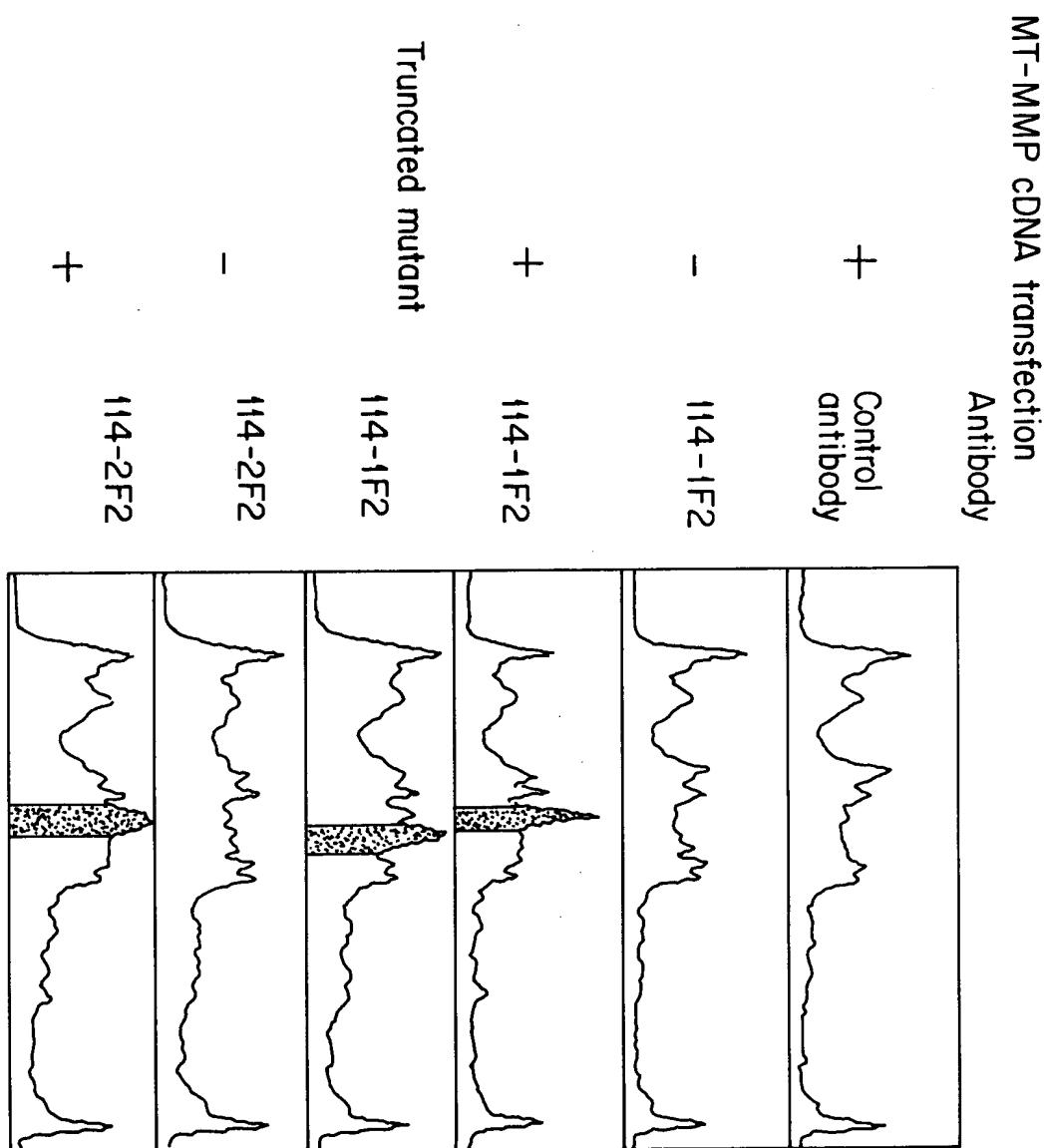


Fig. 6

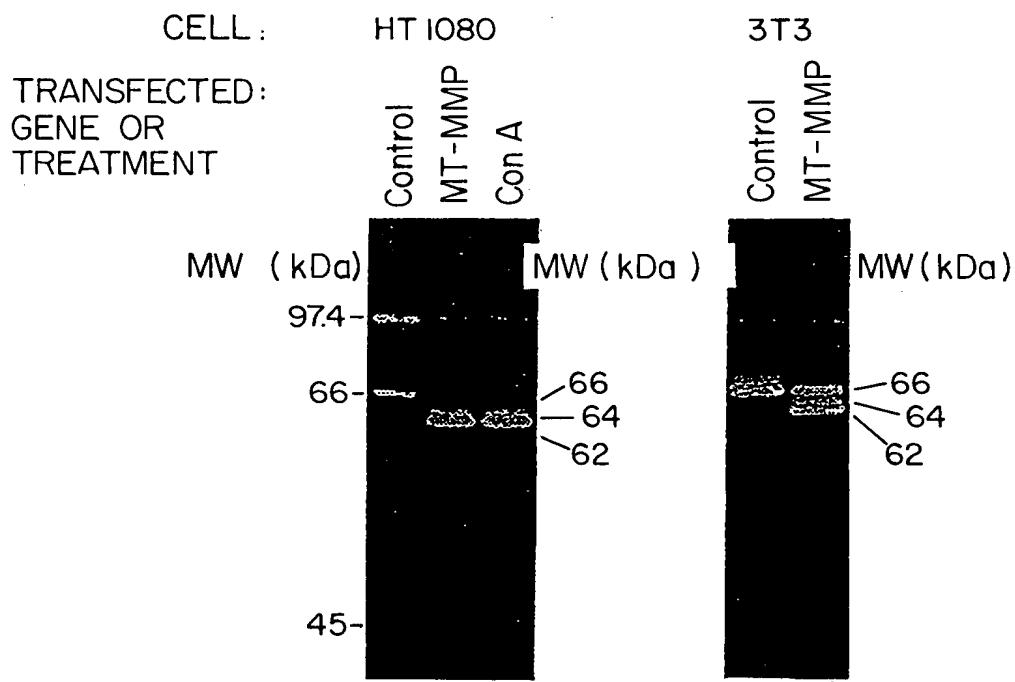


Fig. 7

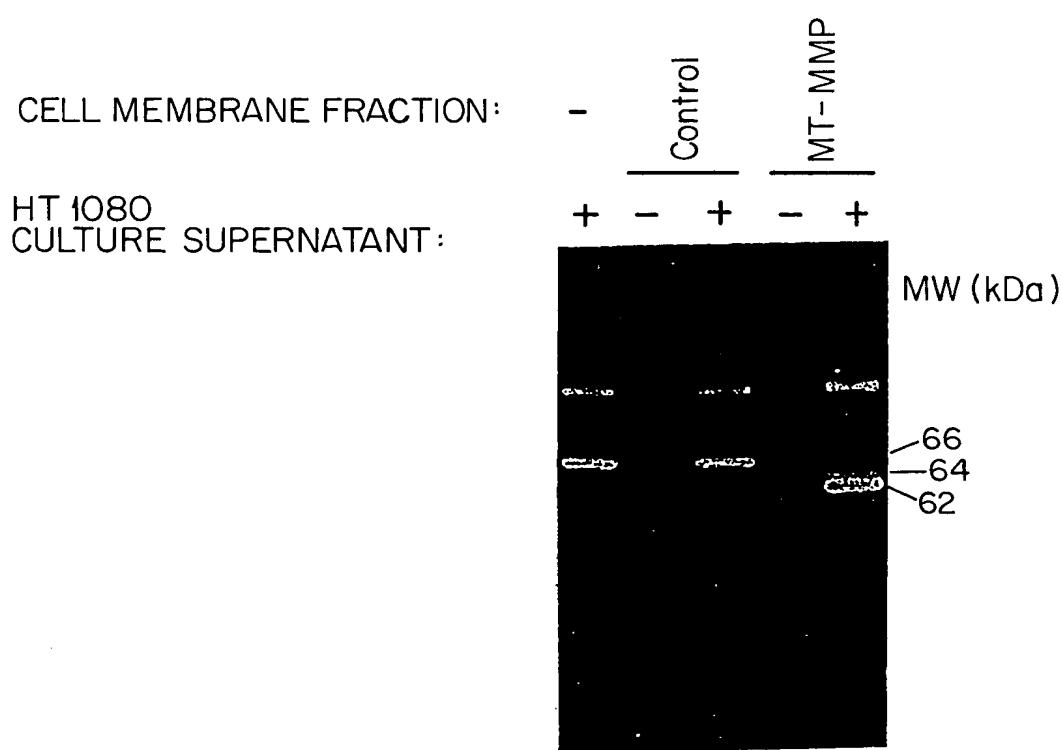


Fig. 8

